

OPTIMIZATION OF POINT-TO-POINT PROTOCOL NEGOTIATION

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ABSTRACT

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The present invention defines a method to optimize PPP negotiations during a data communication session between two peer network elements in a network.

During the configuration cycle of a PPP negotiation, the responding network element uses the option values of the first configuration request packet sent by the sending

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network element to predict the option values of the next configuration request packet

that the sending network element will send. The responding network element then

generates a response packet based on the predicted option values. The responding

network element forwards the response packet before the next request packet is

received from the sending network element. Once the response packets are forwarded,

15

the internal states of the responding network element are set appropriately to initiate communication for the next protocol level.